

FIGURE 1

Proposed Synthesis of CNCbl poly-L-lysine-DTPA

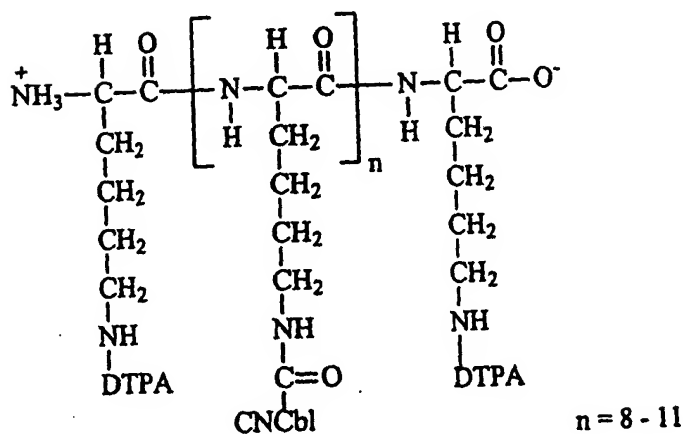
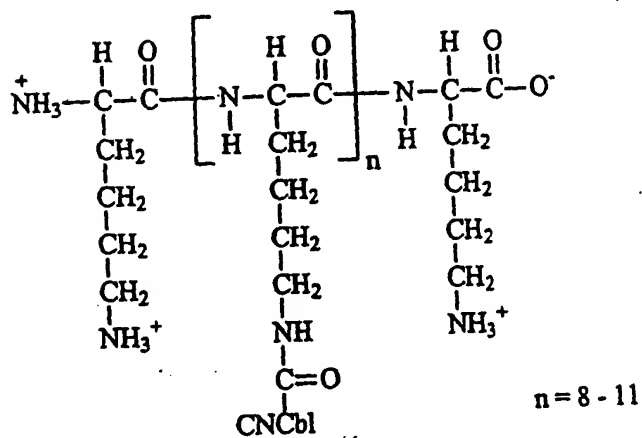
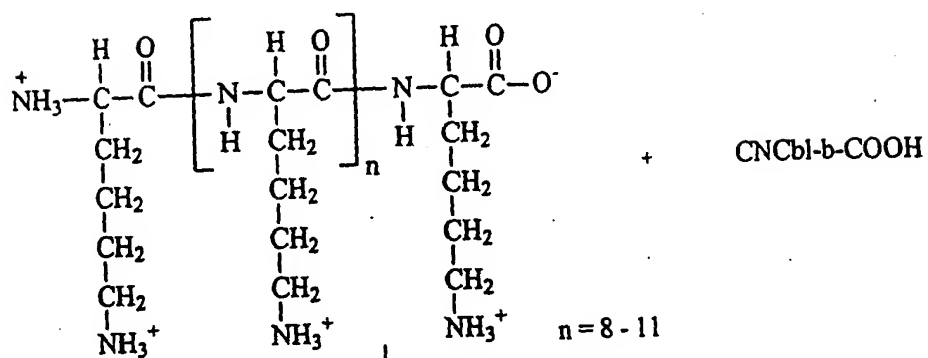


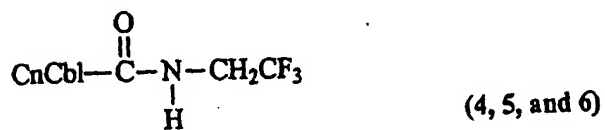
FIG. 2

10027593, 102501

Synthesis of adenosyltrifluoroethylamidocobalamins

CNCbl-COOH (b, d, and e)

WSC
Hydroxybenzotriazole (1, 2, and 3)
↓
 $\text{F}_3\text{CCH}_2\text{NH}_3^+\text{Cl}^-$



NaBH₄
5'-CHLORO-5'-DEOXYADENOSINE
↓

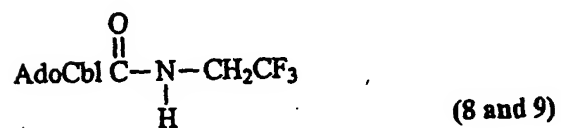


FIG. 3

10027593, 102501

Synthesis of adenosyltrifluoroethylamidocobalamins

CNCbl di COOH

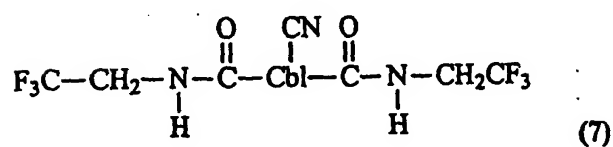
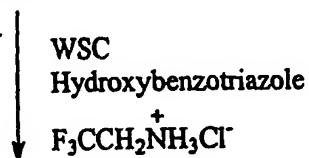


FIG. 4

Synthesis of cyano-b-trifluoroacetamidobutylamidocobalamin

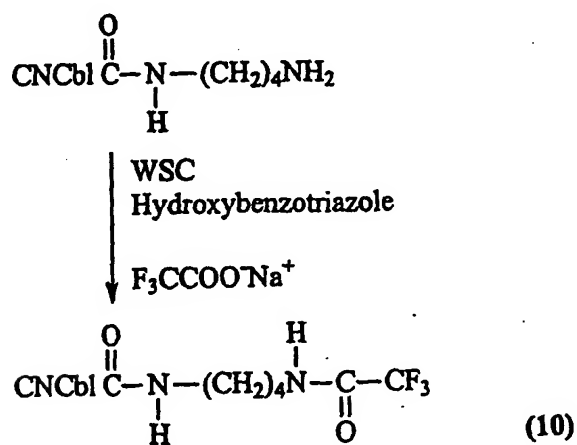


FIG. 5

Synthesis of cyanotrifluoroacetyl polylysine cobalamin

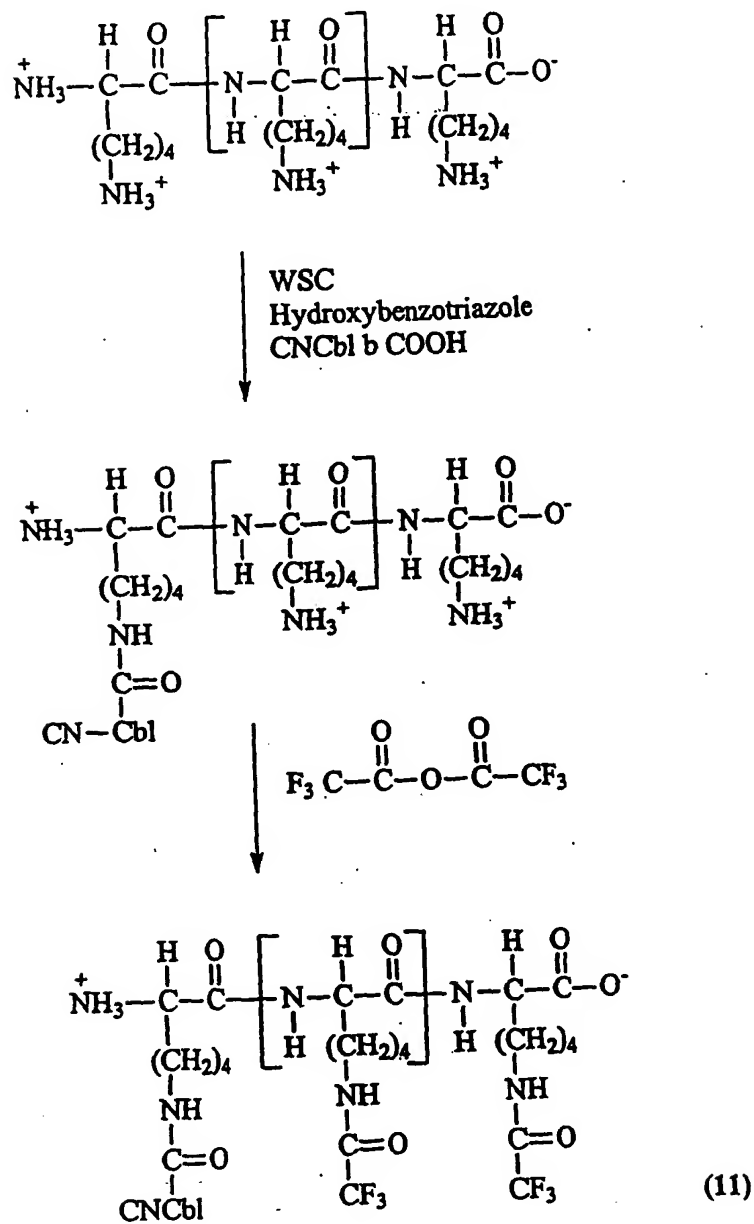


FIG. 6

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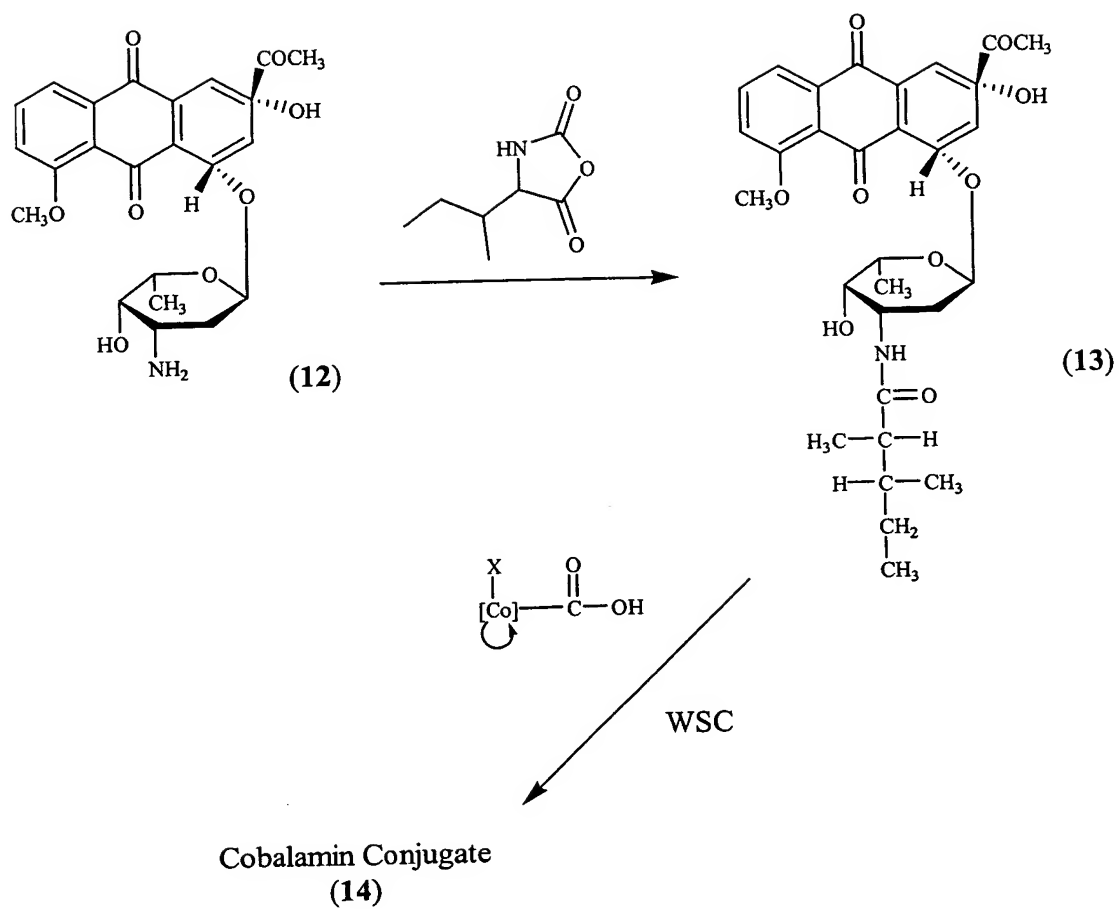


FIGURE 7